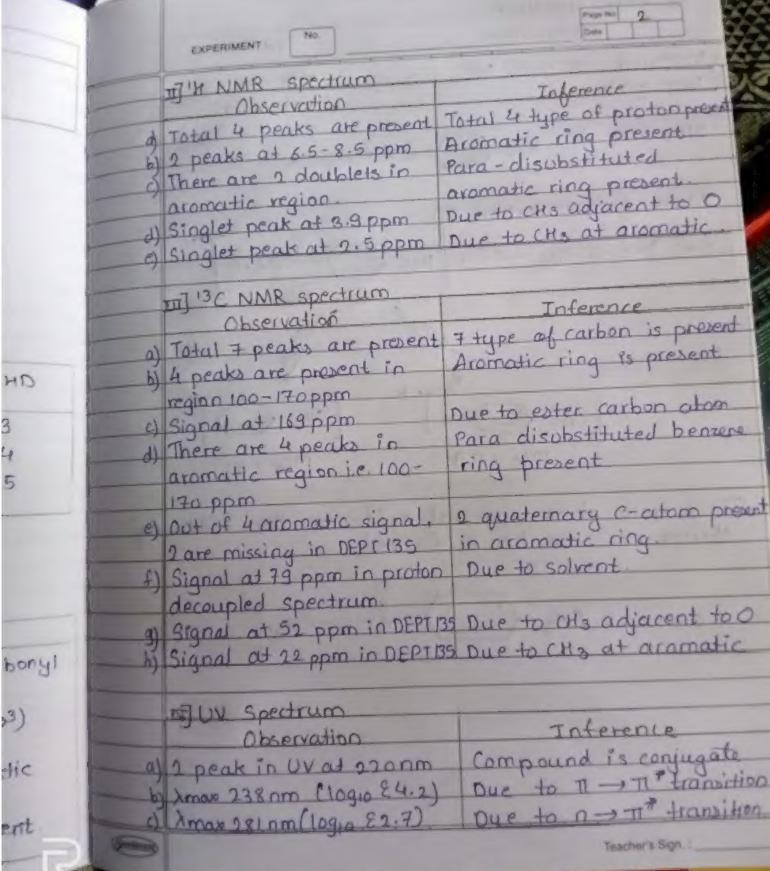
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EXPERIMENT NO.	
A) Preliminary Observation I] IR Spectroscopy Observation a) Strong observation at 1724	reference c=0 stretching i.e. aid. ketone, aldehyde may be present c-H stretching aryl/vinyl sp2) falkyl (-H (sp3) may
n] 'H NMR Spectroscopy Observation o) Total 4 peaks are present	Tnference
b) 2 peaks are present in the region 65-8.5 ppm	in the structure. Aromatic ring is present
Observation 1) Total 7 peaks are present	Inference F types of carbon atom is present.
b) 4 peaks are present in region	
NJUV Spectroscopy Observation	Inference
a) There are 2 peaks in UV spectrum about 220000	Compound is conjugate

R

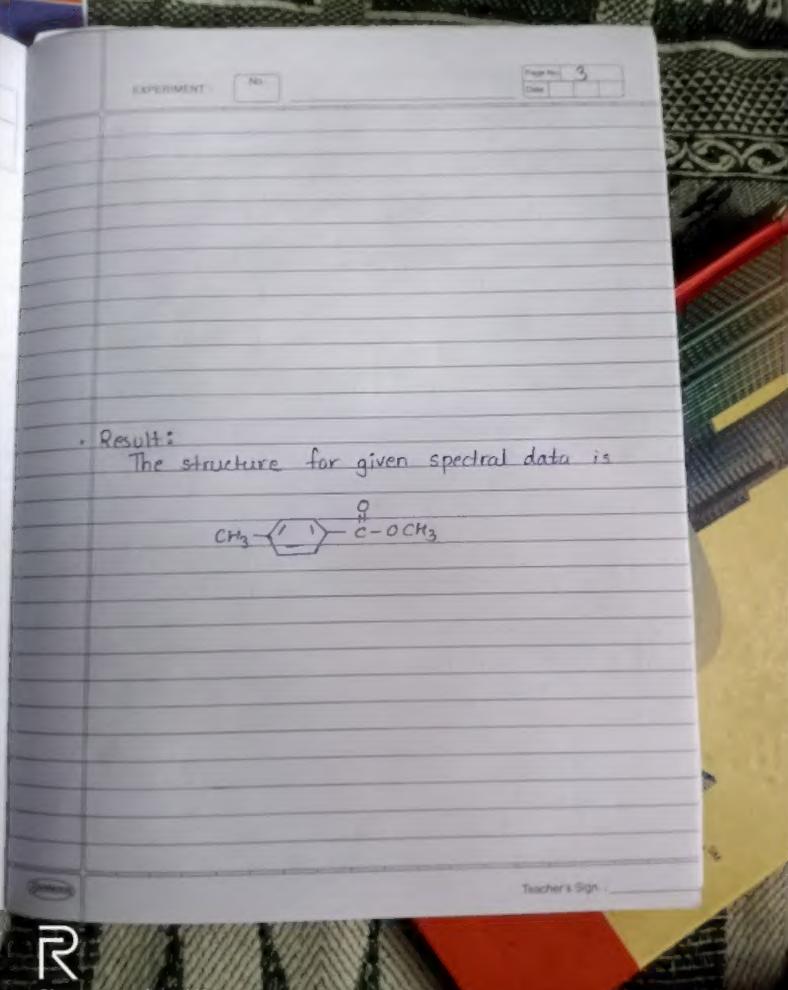
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V Mass Spectrum Observation		Inference		
a) Molecular Ion peak M+"		- 150		10
b) Base peak		n] 'H		
1) Determination of molecu	Jar formul	٥		d Tot
Rule of 13 : 11 = n+1				6) 2 F
No of eaches NA - 150				aro
No. of carbon = M = 150	L 2 II			d) Sig
No of hadrogen = M-(cx	10) = 150 -	(11×12)		
No. of hydrogen = M-Ccx				m)
No. of hydrogen = M-Ccx Base formula: Cn Hn+r				m]
Molecular Add Reason a	= CIIHII+z =	Modified	CHE	a) To b) 4
Molecular Add Reason of formula element adding	= CIIHII+z =	Modified t formula		a) To b) 4
Molecular Add Reason of formula element adding	= C11H11+2 = 0 Substract equivalen	Modified t formula Cutie	3 4	a) To b) 4 c) Si
Base formula: Cn Hn+r Molecular Add Reason of formula element adding Cn His O Carbonylgia Cn His O IHD is	= CHHII+Z = OF Substract equivalen	Modified t formuld Cuttie Ciotie	3	a) To b) 4 rea c) Si d) Th
Base formula: Cn Hn+r Molecular Add Reason of formula element adding Cn H18 Cn H18 Cn H18 Cn H18 O Carbonylgro Cio H110 O IHD is insufficie	= CHHII+Z =	Modified t formuld C11 H18 C10 H140 C3 H1002	3 4	a) To b) 4 c) Si d) Th
Base formula: Cn Hn+r Molecular Add Reason of formula element adding Cn His O Carbonylgia Cn His O IHD is	= CHHII+Z =	Modified t formuld C11 H18 C10 H140 C3 H1002	3 4	a) To b) 4 rea c) Si d) Th

IJ IR spectrum	
Observation	Inference
a) Strong observation at 1724cm	group is present.
b) Medium observation at region 3100-2900 cm ⁻¹	C-H stretching alky (Sp3) Present.
d Peak at 1600-1610 cm	c=c stretching, aromatic ring is present.
of Strong observation near 1100-1300	c-o stretching is present

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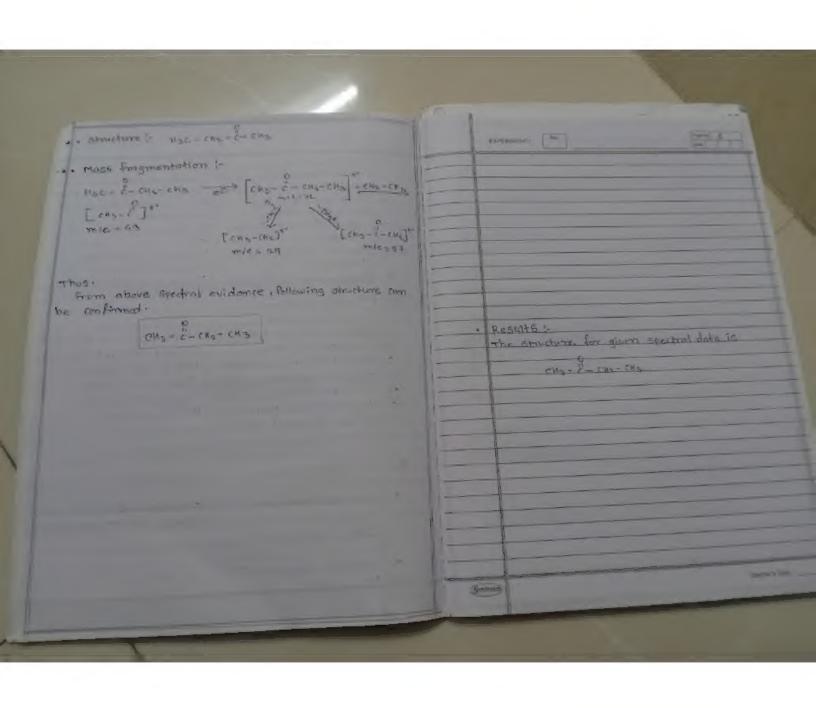
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	EXPERIMENT: No.	Properties 4					
-	· Spectral identification N	0 1:2					
	All preliminary observation						
:	IT IR Specimoscopy !-						
	Observation	Inference					
a	strong observation at	carbonyl group present					
-	1718 cm-1						
b)		Alcohol group may be					
_	3000 cm	present.					
	1						
I	H NMR Spectroscopy						
	Observation	Inference					
<u>a</u>)	Total 3 peaks are obser-	3 types of protons are					
	ved	present.					
(d	There is no peak region	This is an aliphatic					
	to 6.5-8.5 ppm	compound.					
III	13 C NMR Spectroscopy	1000					
	Observation	Inference.					
-7							
_ a)	1	present.					
	ed	carbonyl carbon is present					
(d	Peak at 210 ppm	Company Carlotte la piesa					
TU]	UV Spectnoscopy i-						
	observation	Inference					
		so compound is conjugate					
0)	peak at 065 mm						
I	mass spectrum						
	observation	Inference					
	and the sould mt	mle = 72					
0)	molecular ion peak mt	mie = a3					
6	Base peak						
Aundaram)	110	Teacher's Sign :					

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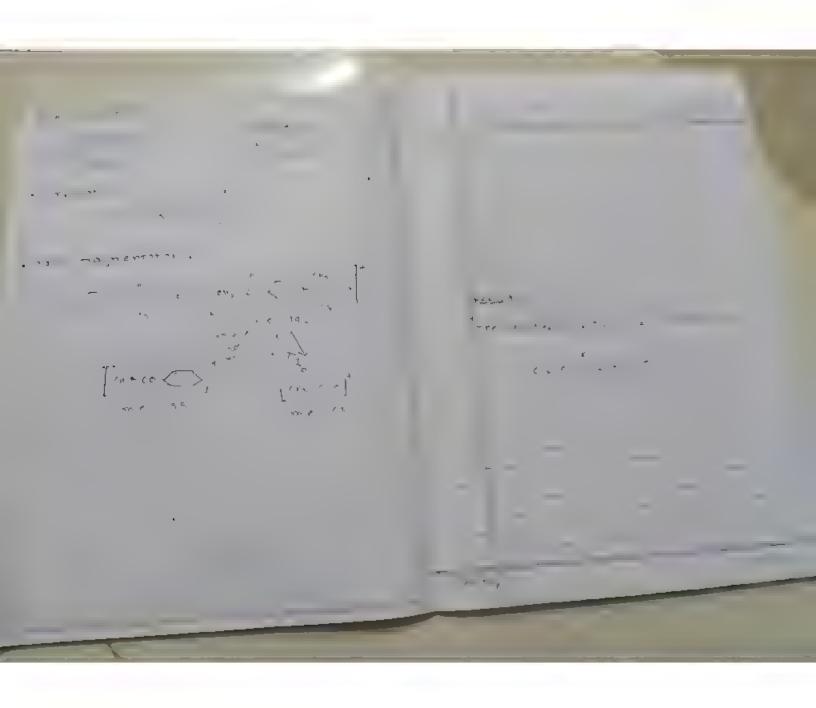
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* Rale	4 13 T	To - wax					FEM RINGST.			
No of	Hydrogo	m M- CC × + 21 - C	33(11)	Carre		- 77	Taiol & from	velian. Hi xis kodono s (1904 region)	nice is	mention Againgen are protein as at phable timps the additional as
Malecular Germula	Rad	pesson of	subatract	enod Fied	ZHO -		gen of a	tem stead.	Certion	to adjustment to the
Callin	-	-	-	IsH _I	2+1-12 5-1-12 6-6		Peak of	ally one obser	contact of the contract of the	THE STATE OF THE S
So H1Z	0	group combound	Cha	Censo	7+1-3. 1-1-8. 2-4.		peak as	rain so us of segion so us as a party of the segion so us as a segion so us a seg	to be but the fact of the fact	th sea error of to - ing arms of to - ing arms of to fairers
· Mole cul	ar form	ita Cavi	» O			_	J luu es	e channo -		
Detail (observat	ion r	T -r	nterence			a) People	At 245 Em		prince of brought
Observational lais mil contony amor apare delectors				ac delicetorie	-		Spectorn -			
edium observation at socient			C- 4 Stret	may be present - 4 stretching alkyl (sp) present - a stretching ester or acid, tetone or aldehyde may be to			A) Modes	dar ion peal	e mat	mic :

# m	ass African	erro T-				CONSIST THE SECOND	
	observa	Nov		Inference.		1900on 1	
A motors	ulary len pr	enk mt		491 - 51		TI " A HEAR SPECKMING !-	AV
hi Bosst	Picasc		701	e = 196.		Objection Inference	AV
-						a) there are a penks shaered a type of Prymagin a	
· Destarray	amation o	of molecular	samula.	2-		(a) a prove present at an 25 memorial ring is bush	AX
, gule	of 18 1- 0	13 - 2149				e) signal of region a-2-2 per so-see is the is armed	No.
an of	earlies -	17 - 192	-16			E) Signal of response desired	
				- 10-2 (63		A) signal at region tites provide to the in execution	
Mar of	ny drogen	= TH+ CCX 10	a) = 192-	Lingeling		A There are do had to region so it is good dibu	botton
			0 24		115	R.G - 2-5 Stern and commander was	CITTO
		- Cultinar =		in = Guittin	and = Ciakan		
. Bd B6	formula :	CALLES -				ml 13c NMR speckners	
	1 14	0-0-0	a shatrack	modified	ONE	abservation Interests.	
molecular	Add	adding	equivalent	Francia	117	A law on a need's present a type of persons	Printer
Formula	Flemers	lacering.		Clothad	014-1 = 412	the state of the s	Parameter 1
Callan					01611=3912	a land of same Is a - Vec c- a che trong and	S Sales
					= 16-12	PRINT PRINTED IS ASSESSED.	
						d) pente at region so no prom mene (- PI)	CHI
cialling	0.	continued	CHA	Cigitaco	4 - 9	e) crate at 77 person	17
		group			A LV	on Lords at 150 from est many	-3
					- IV	A L L L L L L L L L L L L L L L L L L L	THE PARTY
CISHLEO	0	THO IS IVE	cha	CISHICOZ	5	3) feels of my on the conde is sus	COL
		sufficient			- 7		
-	Lan Con	rmula = C	12 M16 02			IN UN Spectrum !	
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petail o	obse wati	243 7				a) to feel at about 260-290 supported to	12305
IR Spec	hum !-	_		Interen	ace	A) 1 0 113/ 1/1 20	
ab	bservatio	00	10-4	- Lina	company and bussely	b) Peak at Amax sex am Due is not no	200
40 2000	lace con	Parameter 1		MIETERIA	Wal read present	b) reak of Amor ser I'm	
a ch	רייולבעירפיי	07 3000 Cm	M-1 C-H 3	petering a	alkyl rsps) present	1 (10910 £ 17.6)	-
Stories or	1800- 16	ca cmal		stretching	, benzene presupt	0)	-
Falt at	1500- 10	- mel	0-03	stretching "	ether, ester	Todayer,	
peak of	1200-130	TO CH					
			C-H 5	hearing !	Penra Subsituard		
FB C 25	120 (70"			-			

	EXPERIMENT: No.	
_	3	Page 101 34
	Spectral identification	
- AI		No - 3
	OPECMOSCODY.	
	observation	Interence
(a)	strong observation at	c=0 stretching combenyl
	1466 Cm	group is present.
	strong observation at	C-H shetching ally (spa)
-	3000 cmi	present.
Free	1	
	1 H NMR Spectroscopy	
-	Observation	Inference
(0	There are a peaks one	Total a type of proton
	observed	are present.
b)_	a peaks present at regio	n Aromotic ring may be
	6.5'-8.5 Ppm-	present
TII.	13C NMR spectroscopy	
	observation	Inference
(is	There are a peales are	Total & type of morbon
	observed	one present.
63	peak at range 110-160.	Ammatic ving may be
- 0/		present.
	ppm.	
TW	UN spectrum 1-	
	12	Inference
13	observation	
a)	peak at 262 nm & 269m	conjugated:
	4'4	1 Carindutus.
		Teacher's Sign.



	EXPERIMENT: No.	Page tel 20
-	Spectral identification	
A3	preliminary observation	No: 4
II	TR Spectro 3 copy	
	Observation	Inference
(3)	strong observation at	Cia cook- la sura in
	lead cmil	present.
	Medium observation at	c-o stretching alcohol, ether
7	1300 - 1200 cm	may be present
		1110
正	TH NMR Spectroscopy -	
	Observation	
(2)		- 3 type of proten is presen
	ent.	mì.
	Signal at region 7-8	murrante mig
	bbw.	present.
	13C NMR Spectroscop	- 0
	observation	Inference
2)	Total 6 peaks are pres	e. 6 type of combon 15
		Y-11 C-21
	a peaks one present a	Anomatic ring may be
10)	a peaks one production	present.
	region 120-160.	
TUI	UV Spectrum !-	0 00000
JVJ	observation_	Inference
	0.056	compound may be conjug-
a)	peales at 055 mm	ated.
14-14-14	3	
		and the second of the second o
		Teacher's Sign.
Sundacam)		



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	Come 1 1
- AT	Spectral identification
1.3	The spectroscopy -
	Observation
01	it to irc' conbonyl c a stretching
-	strong observation at combanyl c= a stretching carbon
-	1738 cm' xylic acid, ester present
	1 H NMR Spectroscopy -
	observation Inference
(1)	Total 3 peaks one present 3 type of proton present
	peals at region 7-8 ppm Aromotic ring may be
	· present.
	13C NMR Spectroscopy-
- Jake	observation Inference
0	Total & peaks are present Total 6 type of combon pres
	ent
<u>b) </u>	peals at region 160-180 combonyl e=0 stretching oid
	ppm:
1	
_ <u>IU</u>	Observation Inference
	so compound may
0):	peak at about . Conjugated
	Mass spectrum-
— †	
_ 0) [
<u>b)</u>	Base peale

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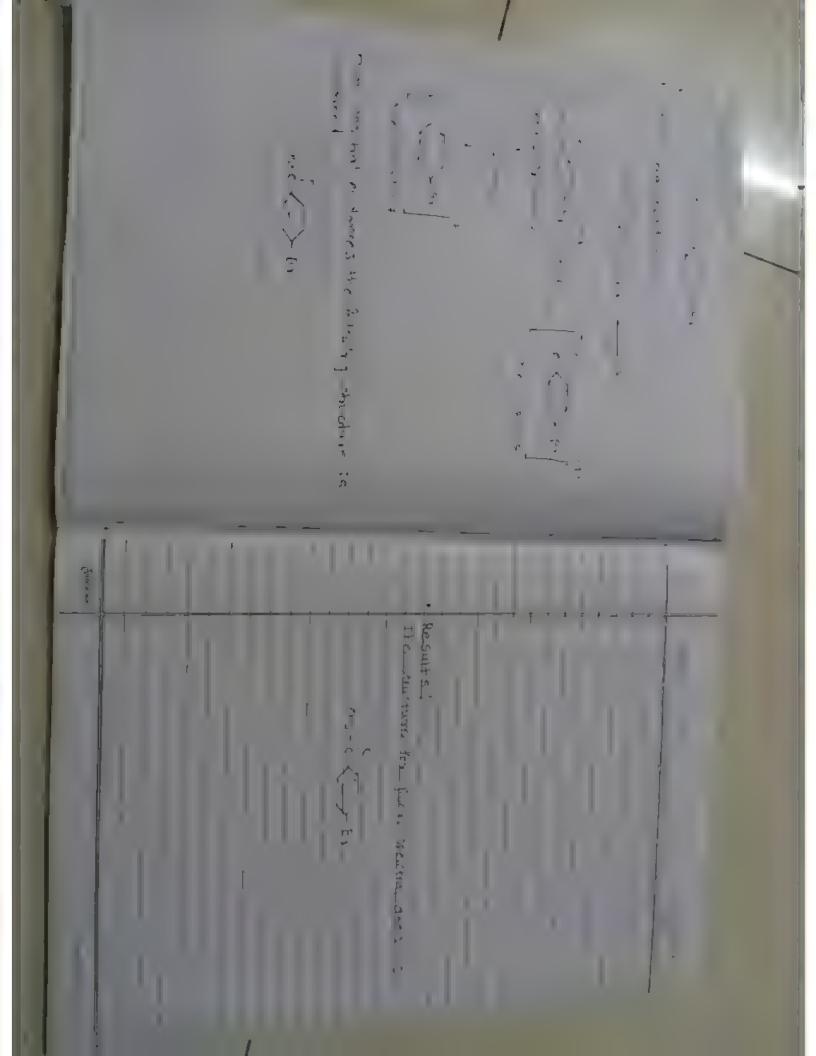
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	Electral identification I litiminary observation II IR - Spectroscopy -	
	one of 1673	Inference constructing aldehyde, ketome may be present con structing. Lenzeme may be present
	TH NMR Spectroscopy - cbservation spectroscopy -	Inference Idal 3 peals types of proton one present
万)	Two peaks present in	Anomatic ring may be present.
ره.	Observation. Total & peaks are coserved	Total & types of carbon are present. Aromatic sing may be
	110-160 ppm.	present
24	Calc at above 220 mm	conjugated.

4.7

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,0	Airetral Jent-fration in K	[.w]	2 . 'm'2 E8". +2 . ") (a	II 1 " NITR SPECTOSCOPY	ate one		There are apeaks are		Till Un speckrum-	a) logic 8 - 3 & U.V. Speckinm	-	V) Mass spectrum -	o) male culon seal : an mi	t {

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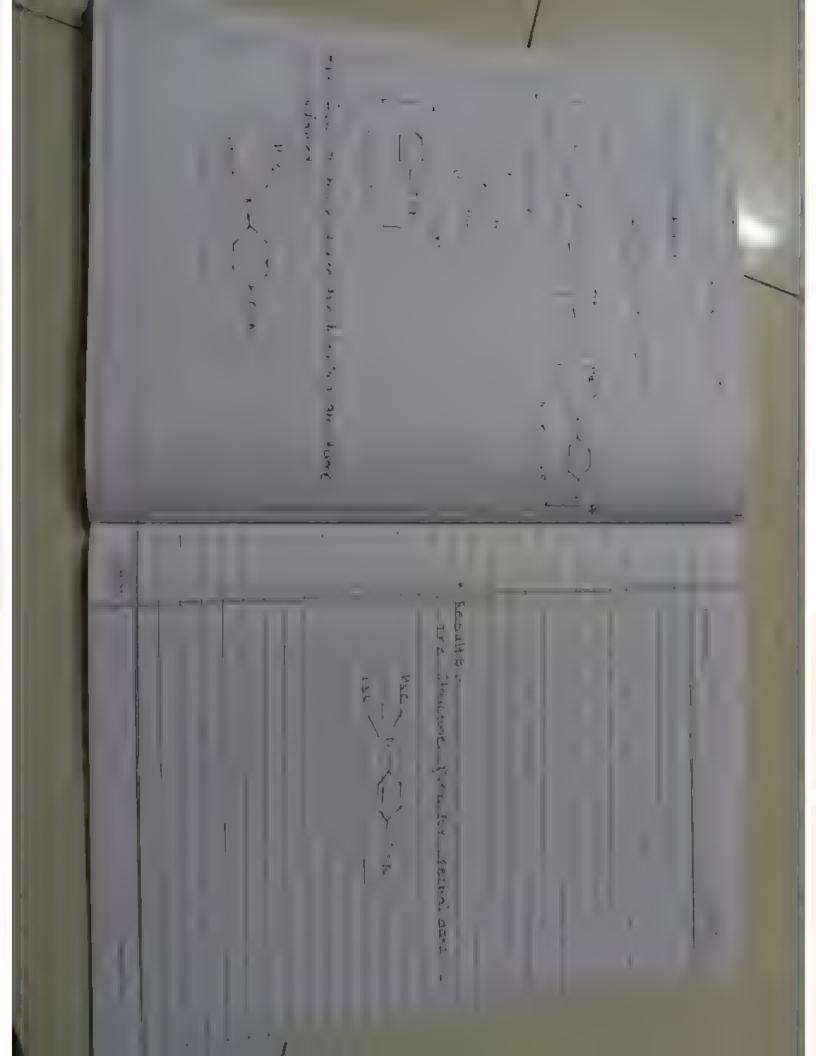
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	EXPERIMENT: No.	Page No. 2. %
	· spectral identification n	
	il preliminary observation	
	I IR spectroscopy	- 0
- 1	observation	Inference
- 11	strong observation at	c-11 stretching alkane may be present
(4	medium observation at	c=c stretching benzene
- 62	1900 - 1500 cm-1	may be present
TIT	1 H NMR Spectroscopy-	
	observation	Interence
a)	Two peaks are observed	Two type of protons
		one present.
(d	peak at 6-8 ppm.	Ammatic ming may be
		present.
III	13 C NMR Spectroscopy	_
	observation	Inference
a)	a peaks one observed.	
-		one present.
13	peak at 110-160 ppm.	Aromatic ring may
0)	praise at the tax pris	be present.
-		
CUT	INI coachainne	
	UV spectrum-	Inference
-	observation	
d) [1	peak are about 220 nm	compound may be
		conjugated.
		1
		The second second
mm)	10	Teacher's Sign :

- fuessed buce प्राप्त चाएँ CEC Shaking oromotic 0) Profe at 19 at 1600-1500 ching aromatic virag present صدرازما عده - وده دسر soco carilla observation of Merra - Subsituted CH State - furzezed E-H strekching alkone is 40 motornoedo prote (0 INFIRME Opsessation. १) हिवर्ष हरवार 16 - 3/12 Makeuday peak lan 1947 (v - murchade AI CT न्हा = हायर Chosenation. - nothernatuo liatea. 3300 TO LOS II Mass Specificing חל בניטוב חד המימיה בם בי מיחי threaten 2: housanny ರ್ಷಭಾರವಾಭವರ್ - UHI Tolkerine עוון מי מינינאיניה putter) = other = creation : plumot sind र अंद्रात के कि विवास अगा र mgg 22 26 40 4029 (3 5/ = a) people and meen a type of corner out in 821-031 = (01×427 - 381 5 STUBLINE apportaged (EIX) - W = wolfingfu go = 44 MENTER SPECTATION 111 41 = - 581 = 51 Ematro do 101 2012 8 E 40 51029 במינה אין בניה מודימאול ז'יק מונה אין בניה מודימאול ז'יק TEN - M = 61 90 3/0) - plumbs rolussion to nottonimists: STONE STATE OF THE STATE THEORY CALCULATIONS क्षां करा अध्यय MANY NEAR G THE SPECTATE 15 = 214 mai stess enterstante 121 = >1W The fame mail our sedo DUBLINE - WINGS SPECKING

Observation	Interence
Molecular ion peak M+"	m/e = 160
Il Base peak	m/e = 119

Thus, from above spectral evidence, the following structure can be confirmed.

